

IN THE CLAIMS

1. A process for removing arsenic compounds from the distillation bottoms obtained in the distillation of arsenic-containing hydrogen fluoride comprising

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- (a) concentrating distillation bottoms by evaporation of hydrogen fluoride until the temperature at the bottom is from 40 to 60°C, and
 - (b) reacting the resulting residue with calcium hydroxide, calcium oxide, or a mixture thereof.

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4. A process according to Claim 1 wherein the amount of calcium hydroxide, calcium oxide, or mixture thereof corresponds to the amount necessary for stoichiometric conversion of the distillation bottoms comprising products selected from the group consisting of sulfuric acid, hydrofluoric acid, and hexafluoroarsenic acid into the corresponding calcium compounds.